

Rec'd PCT/PTO 29 JUL 2004



10/501933

PCT

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/501,933

DATE: 07/29/2004  
 TIME: 15:59:00

Input Set : D:\gl5038us01.txt  
 Output Set: N:\CRF4\07292004\J501933.raw

3 <110> APPLICANT: Mendrick, Donna  
 4       Porter, Mark  
 5       Johnson, Kory  
 6       Castle, Arthur  
 7       Elashoff, Michael  
 8       Gene Logic, Inc.  
 10 <120> TITLE OF INVENTION: Molecular Hepatotoxicology Modeling  
 12 <130> FILE REFERENCE: 44921-5038-01-WO  
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/501,933  
 C--> 14 <141> CURRENT FILING DATE: 2004-07-20  
 14 <150> PRIOR APPLICATION NUMBER: US 60/222,040  
 15 <151> PRIOR FILING DATE: 2000-07-31  
 17 <150> PRIOR APPLICATION NUMBER: US 60/222,880  
 18 <151> PRIOR FILING DATE: 2000-11-02  
 20 <150> PRIOR APPLICATION NUMBER: US 60/290,029  
 21 <151> PRIOR FILING DATE: 2001-05-11  
 23 <150> PRIOR APPLICATION NUMBER: US 60/290,645  
 24 <151> PRIOR FILING DATE: 2001-05-15  
 26 <150> PRIOR APPLICATION NUMBER: US 60/292,336  
 27 <151> PRIOR FILING DATE: 2001-05-22  
 29 <150> PRIOR APPLICATION NUMBER: US 60/295,798  
 30 <151> PRIOR FILING DATE: 2001-06-06  
 32 <150> PRIOR APPLICATION NUMBER: US 60/297,457  
 33 <151> PRIOR FILING DATE: 2001-06-13  
 35 <150> PRIOR APPLICATION NUMBER: US 60/298,884  
 36 <151> PRIOR FILING DATE: 2001-06-19  
 38 <150> PRIOR APPLICATION NUMBER: US 60/303,459  
 39 <151> PRIOR FILING DATE: 2001-07-09  
 41 <150> PRIOR APPLICATION NUMBER: US 60/331,273  
 42 <151> PRIOR FILING DATE: 2001-11-13  
 44 <150> PRIOR APPLICATION NUMBER: US 60/364,045  
 45 <151> PRIOR FILING DATE: 2002-03-15  
 47 <150> PRIOR APPLICATION NUMBER: US 60/364,055  
 48 <151> PRIOR FILING DATE: 2002-03-15  
 50 <150> PRIOR APPLICATION NUMBER: US 60/436,643  
 51 <151> PRIOR FILING DATE: 2002-12-30  
 53 <150> PRIOR APPLICATION NUMBER: US 09/917,800  
 54 <151> PRIOR FILING DATE: 2001-07-31  
 56 <150> PRIOR APPLICATION NUMBER: US 10/060,087  
 57 <151> PRIOR FILING DATE: 2002-01-31  
 59 <160> NUMBER OF SEQ ID NOS: 4295  
 61 <170> SOFTWARE: PatentIn Ver. 2.1  
 63 <210> SEQ ID NO: 1

ENTERED

(PG. 6-7)

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Input Set : D:\gl5038us01.txt  
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64 <211> LENGTH: 158  
 65 <212> TYPE: DNA  
 66 <213> ORGANISM: Rattus norvegicus  
 68 <220> FEATURE:  
 69 <223> OTHER INFORMATION: Genbank Accession No. AA108277  
 71 <400> SEQUENCE: 1  
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 73 aatcgccgt tttgtcggtt agaatgtttc tgcacagaag atggagaaaaa tctaaagtga 120  
 74 aagtgcgcgt gacacacatg catttcacat atccgctc 158  
 76 <210> SEQ ID NO: 2  
 77 <211> LENGTH: 249  
 78 <212> TYPE: DNA  
 79 <213> ORGANISM: Rattus norvegicus  
 81 <220> FEATURE:  
 82 <223> OTHER INFORMATION: Genbank Accession No. AA684641  
 84 <400> SEQUENCE: 2  
 85 cgttctcaat aaatatttta tttttctgac actccaccct caatacaaaa gccttctggc 60  
 86 tggagccgga ttgtcgaaac aggccctgcc gcgggcaccc gcttgcttag tcccttagggc 120  
 87 tgcggcaccc agacacaagg cagtgaacgt atggctagac ggagatggta ctttatataag 180  
 88 aaacagaaca gcaataggta caaaaggggc agctgcgtca cctccagggg ctactccagc 240  
 89 tgctgtggg 249  
 91 <210> SEQ ID NO: 3  
 92 <211> LENGTH: 276  
 93 <212> TYPE: DNA  
 94 <213> ORGANISM: Rattus norvegicus  
 96 <220> FEATURE:  
 97 <223> OTHER INFORMATION: Genbank Accession No. AA684857  
 99 <220> FEATURE:  
 100 <221> NAME/KEY: misc\_feature  
 101 <222> LOCATION: (1)..(276)  
 102 <223> OTHER INFORMATION: n = a or c or g or t  
 104 <400> SEQUENCE: 3  
 W--> 105 cggggaagag gtgggtttaa cagaatgcct cctggtcggg gtngnnngtcc catgcctct 60  
 106 tctagaagag attatnatga tatgagccct cgtcgaggac caccaccacc accacacctt 120  
 107 cngngtggac ggggtggcag cagagctcg aatcttcctc ttccctccacc accaccaccc 180  
 108 agagggggag atctcatggc ttacgacaga agagacggc ctggagaccc ctatnatggc 240  
 109 atggttgggt tcagtgcgtga tgaaaacttag gactct 276  
 111 <210> SEQ ID NO: 4  
 112 <211> LENGTH: 301  
 113 <212> TYPE: DNA  
 114 <213> ORGANISM: Rattus norvegicus  
 116 <220> FEATURE:  
 117 <223> OTHER INFORMATION: Genbank Accession No. AA684919  
 119 <400> SEQUENCE: 4  
 120 aaaccccgag tttatataac cattttggag gtttaagagc atggtaccag caattgtttc 60  
 121 cctccaaatcg gcatctccta gctacatcac agtgtggta aatggtggtt aaccctcatt 120  
 122 gtcatcttga ctgcacatcg actcacatag gaggcacctc tgggagttatg tgggagggta 180  
 123 ctgccagaga ggcttaacag gatggcagac atttctgaat atgggcagca gcaaaccatc 240  
 124 agctgtggtc ctgagctgtg cttgtgcgtg gagggcaggt ctgttaggtag catgtggtc 300

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125 g 301  
 127 <210> SEQ ID NO: 5  
 128 <211> LENGTH: 317  
 129 <212> TYPE: DNA  
 130 <213> ORGANISM: Rattus norvegicus  
 132 <220> FEATURE:  
 133 <223> OTHER INFORMATION: Genbank Accession No. AA685175  
 135 <220> FEATURE:  
 136 <221> NAME/KEY: misc\_feature  
 137 <222> LOCATION: (1)..(317)  
 138 <223> OTHER INFORMATION: n = a or c or g or t  
 140 <400> SEQUENCE: 5  
 141 ggatgttac attattgctt tattcttgg gggataagga atacagcatt taataaaata 60  
 W--> 142 tatcangacc caattttatg cccctacagt aatttcaaaa ggccattaaa taagaatttt 120  
 143 aatgagaaat tatctactgc aacatctcat taggatttct gccttgcacc 180  
 144 aaggagaatg atatcgaagg cttccacac aggttcc aacgtcaggg ggcgctgtca 240  
 145 cagccacaag agccaatgcc ttcttcaggg ttgcttccaa ttttgaagn ataaaatatc 300  
 146 agcacacagg ctctcct 317  
 148 <210> SEQ ID NO: 6  
 149 <211> LENGTH: 290  
 150 <212> TYPE: DNA  
 151 <213> ORGANISM: Rattus norvegicus  
 153 <220> FEATURE:  
 154 <223> OTHER INFORMATION: Genbank Accession No. AA686132  
 156 <220> FEATURE:  
 157 <221> NAME/KEY: misc\_feature  
 158 <222> LOCATION: (1)..(290)  
 159 <223> OTHER INFORMATION: n = a or c or g or t  
 161 <400> SEQUENCE: 6  
 W--> 162 aagataatga tgacattntc atgctggaga aaaaaataag aacatctagt atgccaganc 60  
 163 aggctataa agtntgttgc aaggagataa aaagactcaa aaaantgcct cattcaatgc 120  
 164 ctgattatgc tctgactaga aattatttgg aacttatggt ggagcttcct tggacaacaaa 180  
 165 gtacaactga ccgcctggac atccgggcaag cccgcattct tctggacaat gaccactatg 240  
 166 ccatggaaaa gctgaagagg agggttttg gacttgc gctgttgaga 290  
 168 <210> SEQ ID NO: 7  
 169 <211> LENGTH: 373  
 170 <212> TYPE: DNA  
 171 <213> ORGANISM: Rattus norvegicus  
 173 <220> FEATURE:  
 174 <223> OTHER INFORMATION: Genbank Accession No. AA686164  
 176 <220> FEATURE:  
 177 <221> NAME/KEY: misc\_feature  
 178 <222> LOCATION: (1)..(373)  
 179 <223> OTHER INFORMATION: n = a or c or g or t  
 181 <400> SEQUENCE: 7  
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 W--> 183 taaaaattca ggtatctgaa agactcaaaa ggctattttt cactttgttc aagtntctgt 120  
 184 tccaggcatt aagagtgtcg tacagttgtt gccactgtg ttttccaaat gtccgatgtg 180  
 185 tgctgtgact gacaactact tttctttgtg tctgatcgat tttgcagtag accattttag 240

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186 ttcttacagc atcaataaca aatgcttcaa catcatcagc tccaaatctgt agctcttgct 300  
 187 gcattgtatc aaaagaaaatc tctttgtttt ccactgccat tcccataaaag gtgagggngtc 360  
 188 tcattttcgc cat 373  
 190 <210> SEQ ID NO: 8  
 191 <211> LENGTH: 299  
 192 <212> TYPE: DNA  
 193 <213> ORGANISM: Rattus norvegicus  
 195 <220> FEATURE:  
 196 <223> OTHER INFORMATION: Genbank Accession No. AA686190  
 198 <220> FEATURE:  
 199 <221> NAME/KEY: misc\_feature  
 200 <222> LOCATION: (1)..(299)  
 201 <223> OTHER INFORMATION: n = a or c or g or t  
 203 <400> SEQUENCE: 8  
 204 caacaagaag ctacacttta ttagtgatag aaacagtaca aattttaaac caagctgttag 60  
 W--> 205 ttccactttt caaacaccaa aanggggggg angggggagg agggtgtctt tgctgtcaga 120  
 206 taattacatt gttaattcca taatagcatt tacaatatcg ttactgtngt ttttnaggc 180  
 207 tcggacagcc tttgctcttgc acacatttgc ttgtgacatg accaactcta tgtccttaac 240  
 208 ttccacaccc gtttcatcaa ctcctcttc ttcgntctnc tcttggacag tcggcgtct 299  
 210 <210> SEQ ID NO: 9  
 211 <211> LENGTH: 437  
 212 <212> TYPE: DNA  
 213 <213> ORGANISM: Rattus norvegicus  
 215 <220> FEATURE:  
 216 <223> OTHER INFORMATION: Genbank Accession No. AA686423  
 218 <220> FEATURE:  
 219 <221> NAME/KEY: misc\_feature  
 220 <222> LOCATION: (1)..(437)  
 221 <223> OTHER INFORMATION: n = a or c or g or t  
 223 <400> SEQUENCE: 9  
 224 cggcgtgaga gtcgcctcag gaatattacg tcccctcaat gtctcggtt cgtcaaccta 60  
 W--> 225 tcggaactgt gccaggaatg cctntnttag ttctgcgtg cgcaccatc ctttagaca 120  
 226 tattcagaca tcagttgttt cctctgcattc aaggctgtc aagtctgtcg gacacctggc 180  
 227 atatgggcac acggcatcag tccttaatacg agtggccaca ttggttccca gtgtcttgaa 240  
 228 gcctccggtc agagctctga cgtactgcag tgcacggaaa ggaaagagaa agacagtgaa 300  
 229 gtcgggttgtg catcgcttcc tccganttca ttctggcctt ttggtaagg agggaaaggct 360  
 230 gggataagg aaaaattttg gaaaaagttc aactncaagg aaagagccct ttngggat 420  
 231 tcggtgtcct gcaatag. 437  
 233 <210> SEQ ID NO: 10  
 234 <211> LENGTH: 362  
 235 <212> TYPE: DNA  
 236 <213> ORGANISM: Rattus norvegicus  
 238 <220> FEATURE:  
 239 <223> OTHER INFORMATION: Genbank Accession No. AA686470  
 241 <220> FEATURE:  
 242 <221> NAME/KEY: misc\_feature  
 243 <222> LOCATION: (1)..(362)  
 244 <223> OTHER INFORMATION: n = a or c or g or t  
 246 <400> SEQUENCE: 10

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247 gtcgatcata ccatgttcaa gatgagcggg tggcagcgac agagccaaaa taacagccgg 60  
W--> 248 aacctgagga gagagtntc cagaaggaag tgcatttca tacaccacca cacctgaaag 120  
249 cagaaaccgg tccaattaca gtcattggcag ctgagtcct gccttcgccc tttgagacag 180  
250 tntccagctg ggagctggaa gcctggatg agntctgca ggaggtcctg tcctcagatg 240  
251 aaattggggg canctatata tcattccccag gaaacgaaga ggaagaatca aaaaccttc 300  
252 actacttttgc accctgcata cctagttgg tgactnagga gccaggccca gcagaggctca 360  
253 ca 362  
255 <210> SEQ ID NO: 11  
256 <211> LENGTH: 273  
257 <212> TYPE: DNA  
258 <213> ORGANISM: Rattus norvegicus  
260 <220> FEATURE:  
261 <223> OTHER INFORMATION: Genbank Accession No. AA686704  
263 <220> FEATURE:  
264 <221> NAME/KEY: misc\_feature  
265 <222> LOCATION: (1)..(273)  
266 <223> OTHER INFORMATION: n = a or c or g or t  
268 <400> SEQUENCE: 11  
269 ctgcacagtgcgaggaaaca ggctccggtg ggatggaggc gggcggcgtg gcagactctt 60  
270 tccttccag tgcctgcttgccttccaccc tggcatgtt ctccactggc ctctcggacc 120  
W--> 271 tcaggcacat gcagaggaca cggagcgtgg acaacatcca gtttctgcct tttntcacc 180  
272 cggatgtcaa caacctggc tggctgagtt atggagtctt gaagggagat gggaccctca 240  
273 tcattgtcaa tactgtgggt gcagtgcattt caa 273  
275 <210> SEQ ID NO: 12  
276 <211> LENGTH: 619  
277 <212> TYPE: DNA  
278 <213> ORGANISM: Rattus norvegicus  
280 <220> FEATURE:  
281 <223> OTHER INFORMATION: Genbank Accession No. AA799279  
283 <400> SEQUENCE: 12  
284 cccaaagatta aatgattttt aaaaaagcgt gccactgtat agaaatcaac attctctccc 60  
285 ataattctgt gcattggac tatagaaatg tcactgtccc tgctccacat cttcaaaatta 120  
286 acattctcag gtcacaatag taagtcttcc cacaaggAAC cttccggaaa aacaagctgt 180  
287 ttcctcggtt catattttcc gcttttgc gcatgcacca gcaatctatc caagaagtat 240  
288 atattggggat gtaaggagga gatccaccag caagcccaca gttgttaaca gccataagat 300  
289 tagatacaag cacaaggat tatgtcaaca tactggaaaa gaatcctgtg acagcttggg 360  
290 aataactttt catttcattt atggtagaga ccccaactgtc cagtgcatacg gtattgtat 420  
291 gataagccag tgagttacac agccacaaag aaatgtatgtc acctaggagg cgaggaatga 480  
292 ggcccgcaaa aaatcctacg atgccttctt cccggatgat gtttactatg gagtcacaca 540  
293 gtccgcagta cttagactct ctggcgataa actgtaccat ggacctcaga gtaatcacct 600  
294 tgaaggatgt tgtaatgag 619  
296 <210> SEQ ID NO: 13  
297 <211> LENGTH: 617  
298 <212> TYPE: DNA  
299 <213> ORGANISM: Rattus norvegicus  
301 <220> FEATURE:  
302 <223> OTHER INFORMATION: Genbank Accession No. AA799330  
304 <400> SEQUENCE: 13  
305 tatttaatttgaatacatgt cctggccaaacc aaaccataaa acacttcatg ggaacccatc 60

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 43,45,46,76,123,235  
Seq#:5; N Pos. 66,290  
Seq#:6; N Pos. 18,59,74,105  
Seq#:7; N Pos. 100,115,150,357  
Seq#:8; N Pos. 83,92,168,175,275,279  
Seq#:9; N Pos. 84,86,326,395,413,414  
Seq#:10; N Pos. 77,182,214,253,336  
Seq#:11; N Pos. 174  
Seq#:19; N Pos. 497,498,521,577,578,608,666  
Seq#:22; N Pos. 479,625  
Seq#:23; N Pos. 603  
Seq#:24; N Pos. 440  
Seq#:25; N Pos. 359,462,570  
Seq#:26; N Pos. 358  
Seq#:28; N Pos. 499,536  
Seq#:30; N Pos. 566  
Seq#:32; N Pos. 511,531,589,633  
Seq#:33; N Pos. 564  
Seq#:34; N Pos. 320  
Seq#:35; N Pos. 471  
Seq#:37; N Pos. 588  
Seq#:38; N Pos. 489  
Seq#:40; N Pos. 390,509  
Seq#:42; N Pos. 658,663  
Seq#:43; N Pos. 553  
Seq#:44; N Pos. 543  
Seq#:61; N Pos. 578,634,667  
Seq#:71; N Pos. 429  
Seq#:72; N Pos. 456  
Seq#:77; N Pos. 449,602,706  
Seq#:78; N Pos. 354  
Seq#:79; N Pos. 271,382  
Seq#:80; N Pos. 553,559,569,616,638,639,647,649,655,659,696,728,729  
Seq#:81; N Pos. 486,496,542,543,547  
Seq#:83; N Pos. 500  
Seq#:84; N Pos. 480,501  
Seq#:86; N Pos. 497,574  
Seq#:89; N Pos. 525  
Seq#:103; N Pos. 638  
Seq#:106; N Pos. 528  
Seq#:108; N Pos. 587,626  
Seq#:118; N Pos. 87  
Seq#:133; N Pos. 565  
Seq#:135; N Pos. 589

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Seq#:142; N Pos. 387  
Seq#:145; N Pos. 475,489,512  
Seq#:152; N Pos. 301  
Seq#:173; N Pos. 449,455  
Seq#:191; N Pos. 351  
Seq#:193; N Pos. 570  
Seq#:196; N Pos. 399

## VERIFICATION SUMMARY

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No  
 L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
 M:341 Repeated in SeqNo=3  
 L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60  
 M:341 Repeated in SeqNo=5  
 L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
 M:341 Repeated in SeqNo=6  
 L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60  
 M:341 Repeated in SeqNo=7  
 L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:60  
 M:341 Repeated in SeqNo=8  
 L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60  
 M:341 Repeated in SeqNo=9  
 L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:60  
 M:341 Repeated in SeqNo=10  
 L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:120  
 L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:480  
 M:341 Repeated in SeqNo=19  
 L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:420  
 M:341 Repeated in SeqNo=22  
 L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:600  
 L:557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:420  
 L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:300  
 M:341 Repeated in SeqNo=25  
 L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:300  
 L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:480  
 L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:540  
 L:744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:480  
 M:341 Repeated in SeqNo=32  
 L:771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:540  
 L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:300  
 L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:420  
 L:865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:540  
 L:889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:480  
 L:932 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:360  
 M:341 Repeated in SeqNo=40  
 L:983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:600  
 M:341 Repeated in SeqNo=42  
 L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:540  
 L:1034 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:540  
 L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:540  
 M:341 Repeated in SeqNo=61  
 L:1576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:420  
 L:1599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:420  
 L:1697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:420  
 M:341 Repeated in SeqNo=77  
 L:1722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:300

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L:1747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:240

M:341 Repeated in SeqNo=79

L:1777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:540

M:341 Repeated in SeqNo=80